# Mass Flow Controller

Responsive and stable control in 50 ms







The Fastest Flow Controller Company in the World!



**MCW** Series with low pressure drop







MCS Series for aggressive gases

See the video!



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## Mass Flow Controllers

Hit the mark every time! Control flows with rock-solid stability and responsiveness.

#### **Making You Faster**

- 50-100 ms control response: stills upstream fluctuations.
- Accessible PID valve tuning for best speed and stability.
- Custom valve orifice sizes: yields full-range stability.
- Control mass flow, vol. flow or pressure with one device.
- No warm-up: ready to control process flows in one second.

#### **Quick Specs**

Accuracy: 0.8% of the reading (0.4% optional) + 0.2% full-scale repeatability (NIST-traceable). Linear range: 0.5-100% of full scale (200:1). Multi-gas calibration: 98-130 gases preloaded, plus COMPOSER<sup>™</sup> gas composition firmware. Digital and analog outputs in multiple formats. All flow data visible on one screen (setpoint, mass flow, vol. flow, pressure, temperature). Stand-alone unit: no need for computer or PLC. Lifetime warranty gives you peace of mind.

### Tailored for You

**MCW** Low Pressure Drop Control flows near atmospheric pressure. Max range: 0-500 slpm.

**MCE/V** SEMI Footprint Control better with your SEMI standard. Max range: 0-20 slpm.

**MCS** Anti-Corrosive Withstand corrosion caused by aggressive gases. All ranges.

**Common Options:** Downstream Valve optimizes control in vacuum conditions or backpressure applications. Precision Dispensing Package relies on our fast valves to dispense metered amounts of fluid. CSA Class 1 Div 2 (ATEX Zone 2) Classification permits operation in hazardous environments. Backlit Color Display shines in low lighting.

## Sample Application

### Gas Sparging for pH Control

Control mass flow rates over a wide flow range with rapid adjustments to accommodate changing flow requirements. Digital feedback from PLC or PC allows real-time changes to the flow rate setpoint to maintain optimal process conditions.

#### **L**iquid Flows

Control liquid flows 100-ms control response time. Available in ranges to 0-5 lpm.